Notice No.2

for the
Code for Lifting Appliances in a Marine Environment July 2018

The status of this Rule set is amended as shown and is now to be read in conjunction with this and prior Notices. Any corrigenda included in the Notice are effective immediately.

Please note for the corrigenda items paragraphs, Tables and Figures are not shown in their entirety.

Issue date: June 2019

Amendments to	Effective date	IACS/IMO implementation (if applicable)
Chapter 3, Section 1	1 July 2019	NA
Chapter 4, Sections 4 & 7	1 July 2019	NA
Chapter 10, Section 2	Corrigendum	NA

Lloyd's Register

Chapter 3
Launch and Recovery Appliances for Survival Craft and Rescue Boats

■ *Section 1*
General

1.6 Safety and stress factors

1.6.4 The minimum stress factor to be applied for the design test load case for prototype and production testing is to be taken as 0,85 (*see Ch 4, 2.15 Load combinations 2.15.5(c)* and *Table 4.2.6 Stress factor, F*, load case 4). The requirements for prototype testing are defined in *Ch 3, 1.12 Testing 1.12.2*. The requirements for production testing are defined in *Ch 3, 1.12 Testing 1.12.3*. The allowable stresses to be considered for the prototype and production test load cases are defined in the applicable Chapters of the Code, i.e.:
(a) *Ch 4, 2.17 Allowable stress – Elastic failure*;
(b) *Ch 4, 2.18 Allowable stress – Compression, torsional and bending members*;
(c) *Ch 4, 2.19 Crane jibs – Overall stability*;
(d) *Ch 4, 2.20 Slenderness ratio*;
(e) *Ch 4, 2.21 Allowable stress – Plate buckling failure*;
(f) *Ch 4, 2.22 Allowable stress – Buckling failure of thin walled cylinders*; and
(g) *Ch 4, 2.23 Allowable stress – Joints and connections*.

Chapter 4
Cranes and Submersible Lifting Appliances

■ *Section 4*
Submersible handling systems

4.9 Rope safety factors

4.9.2 ~~The safety factor for wire ropes used for unmanned submersibles is to be obtained from *Ch 4, 3.9 Rope safety factors* but is to be taken as not less than 6,0.~~ The safety factor for wire ropes used for unmanned submersibles is to be determined from the following expression:

$$SF_{swh} = \frac{10^4}{\frac{200}{27}SWL + \frac{43000}{27}\frac{F_{h,swh}}{1,7}}$$

where

SF_{swh} = safety factor required at significant wave height (swh)
$F_{h,swh}$ = hoisting factor at a specific swh derived in accordance with *Ch 4, 4.4 Dynamic forces*
SWL = safe working load of the submersible handling system

For submersible handling systems with $SWL \leq 10t$, $SF = 6{,}0\ \frac{F_{h,swh}}{1,7}$ and $SWL \geq 160t$, $SF = 3{,}6\ \frac{F_{h,swh}}{1,7}$.

The factor $\frac{F_{h,swh}}{1,7}$ is not to be taken less than 1,0.

4.9.4 If in addition to the primary hoist rope, a secondary system of recovery is employed using another hoist rope, the minimum safety factor for this is to be not less than ~~5,0~~ $5{,}0\ \frac{F_{h,swh}}{1,7}$ for steel wire rope and $6{,}25\ \frac{F_{h,swh}}{1,7}$ for fibre rope. The factor $\frac{F_{h,swh}}{1,7}$ is not to be taken as less than 1,0.

■ *Section 7*
Launch and recovery appliances for manned tender boats

7.5 Ropes and loose gear

7.5.1 The wire rope safety factor shall be determined in accordance with the requirements of *Ch 4, 3.9 Rope safety factors* and this safety factor shall be a minimum of 6. The derived rope safety factor shall further be multiplied by the risk coefficient as defined in *Ch 4, 7.3 Loads and design factors 7.3.1*. Rope safety factors for significant wave heights beyond 1,0 m will be specially considered.

Chapter 10
Electrotechnical Systems

■ *Section 2*
Control, alarm and safety systems

2.1 General

2.1.2 Where certification of a lifting appliance is required, the equipment is to be examined and tested under working conditions for compliance with the appropriate National or International Standard. Plans for control systems are not required to be submitted. The requirements given in *Ch 10, 3 Control and supervision of lifts for passengers and crew* and *Ch 10, 4 Control and supervision of lifting appliances for cargo handling* also apply to lifting appliances, as listed in *Ch 10, 2.2 Documentation 2.2.2*, which are required to be certified.

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